## Still Alibe With Sir Clibe!

# ZXir OLive Alive!

The Timex/Sinclair North American User Groups Newsletter

Chairman Bonaib & Kambert Auburn, 300

MEMORY MAP

## ROUTINES

2 information and Chairmon — TreaSury NoteS 3 Apace/Dapar — by Aled Kahafe 5 Paolie — Penc Lubert Adels 5 Sinclair List — Lay Shopsed 5 Sinclair Shore — FWD Computing 7 West Sinclair Shore — Trea Swenaus

Senciale E-Mul Lug
GOODE'TE Sinclair—FWD Computing
From The Charman's Dask — Donald Lambert

FOP\_OVER — Al Peng LacKen/PASCAL — David Soilty LacKen/HiSoilt — David Soilty

Speed Companion - 2068 — David Soilly
QL Hacker's Journal — Tim Swenson
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RENEW membership



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TO



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the rest of us. No problem will be Editor/Treasurer Publisher 24 ou can keep TSNUG alve by to an annual countrytion of \$12

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For helps, constant the SYSCO\*, Date Swagor, by herotog a consession cred. E-Med or phone

# Input/Output

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This Newsletter is not the National

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whose names appear in the Newsletter—the T/S family aroun

The Editors feets that any and all

T/S ethind material will be

Winter 1998

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Helio Alod.

I understand that you are the man to contact concurring received by to TONIGO and subscribing to the revolution. I want IEE owney and not have Bendam the dot of the Ottom-Hall Times Stacker User Group and in foliate for good around 1995. I also wante actions for our newstern as wall as it for Your Security. Time Designs and Underst.

as well as for Your Section. These Designs and Update:

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2 A&J 2000 dates w/ 30 welfers 13 LKDOS A3 dock board EPROM's 13 EZKEY keyboard meeting PCS - no chips

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J Shepard John J Shepard III

John J Shepard III 281 130th St Ogdan IA 50212 315 566-679 Brooksan 45 \_ 135 31 - Ghomobyl 54 , Warris & Warris

Hi Abed,

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CONTACT MASA's Observed versum matterplan Mike and John, Don and Bob

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## Frank Davis

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to clode What Who is 1970 Hele, I'm confiance groups here. There is a NY Sincles club that has mostly meetings in NY and simulaneously on BC (moran near shar) I thank they

Do writing from work because I just reproduced

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If you have use for it, please sout after endough: Courted Doyleght Time to lesses sendance of company trying to sometr a fax cell. Thanks. 3 SOCIETY FOR

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no may of it. I find That I haven't used the 230.91's and 35-2008 at all now that I have the QL zetup A second problem that you may able to IREID me

solve is to find a working copy of assembler Workingsch V 1.5 by Tabesi Computer in Fogland. I woods to those but they must be out of business since they never assembled on better That program come on a money

properly. My original tops and do opper all fairled by distrop petiting smale, in the cassatts case not a root y laye at all. I have all the programs propely copied on only disk but the autotaty keyed taps is senaing. Do you have any suggestions of when to look die is good warking only of

regardines of when to look for a good working only of Assemble Workshows?

Hence keep up pine good work for an Stretch many as the in one so of companies that I can propriet and condominad without a lot of new learning required. The

> o the simple tests I need to John Pegram

List Agels, CA 90077
310 A72-2467
Per: Abed,
I did bay many views from Jack, Think you far the

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1000 computer, Tamer 2040 printer, and a small back and white nelevision set. By using a "long" extension good computing is possible from backs the bount Your frend.

Jury Asses errollated on et-

Hains Apol,
Ha got the Loriest fixed (had to replace 5 sleige), but
led a note strong the SCLD chip was out on the 2008 and
200 Octow Albel

In quicket fir it. I have another 2006 so that's our a huge problem. I hervest had time as set it up and may not used effer the holdshys are over. On taking 2 weeks off starting the 10th, so maybe. If that gat it us up before the New Your. Takes are not there with holds.

Dear Sinclair Users
The later is to proceed the West Coast Student Store

This latter is to arecomes the West Court Sendar Stotentainedly scheduled for 5 June in Linea City, CA. Belgoing too for test organizer for Show we are looking a how every local finalise steep model by several

stranding the Store. Based on this narray, we can either print forward with the show or cased it due to lack of strondarce. Place. Union Cay CA (1) miles point of Original & 10

melen auch af San Jones

Beter: 5 Janes 1999

Timer roughly 100 for ser to 5 to FM (subject to change)

Got appears, 55 - 58 (September on cost of show legisland)

Manual Prints.

Model of Chieser Scale Represed Model 6 (130) 409-401.
The Show will have a commission of source for all Security States and have a commission of source for all Security States and Security Security

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I is fold new dovelopment as the QL world, rectading a
whole over QL/QGGS heard system can be the Q49, and the
sum
Allan, an Arm-hand system than will run SuSGQ, a QDGS
bend opposing system.

For the ZBI there is a new powelants overing not of findand

TWO Computing (Fraid Deve) has dropped august for any QC and Zill so we not looking to find out who will park up the normal. For the Thi-Tools and TG-1006 for we plan to see more officerations about MS-DGS based anotherers for both compution, including the new Younders!

and We still do see best to make the show interesting for all.

and We still do one best to make the show interesting the above the still do not best to make the show interesting the shows it is shown the eightness of meeting others that show it is shown comparing interest. Mostly of us enoughed to use the showled the date can all the showled the date can always yet a showled to the date of the showled to be date to the showled to be determined to the showled to be desired to the showled to be determined to the showled to the

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Mail, or e-mail I you are interested at attending or have any questions. If you are no longer a function user and do not went to be contacted further, please let Tax know and he will be other matching lata cowers know. We hape to one you then.

The West Coace Statistic Show Organizars

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& Tim Swesson
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## Sinclair E-Mail

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Since Thomas

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SOL BEES (\$ 530-812-0101 (date) 220-812-3172 2290 N. Joydan Diff.

Face, there's for the exchange, they help to brighten a Amera collector coders a day, so are quie-I had mount to do up an ad for the next usus but

seem to have run out of free All of my Z88 and OL stuff is sold. What I do have left as T-shirts for OL, TSNUG and ZRR. I also have mouse must for them I also still have my Speccy97. Retro Gold and Speogy Classix CDs and armon Forever CDs that were in my last ad-Prices are the same and what is not sold by the end of January goes to Brazil. Anyon

#### who wants any of this had best do so soon **FWD Computing** PO Box 12

Mexico IN 46958 UNA demonstration bears residenced, cities

#### FROM THE CHAIRMAN'S DISK wrote to Tim Sweezes to ask about the 2010 small over could be alwayed to So I contacted that AN I can say then

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year of 1999 and at the moreon where to it not ultimates of not moreas been and house of comouter JUNES The JUNES! is my wife's words not mine. Later I will work with an MSDOS slope of some kind and will very kitch have the ZX-63 and TS-2005 condition as well as the SPECTRUM, And I will

still have the ZES as I will still be to the TS community. I saw Frenk Davis last Salurdey at the Pt. Whose Hear and Computer Fest Since Frank is march may Anles be in doing great in that field. Still has some ZSS and that not of Been laving a lot of bounded troubles. Not with my wife but the house. Fast we just so a new dishessaher

and when the deporal was disconnected from the pid

assembly I have gut in these prior channels and off of those had to be held up while you that to proper them up to the static. Now we connect a subassemble to the state and then

The webt of Nevember touth a portion of our privacy handred dollar deductible. And so to save the breaked dell

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door The behoal goog that the worm gray that is assuretly has stropped day we went to Source to some differences could g sums track and chain but now I am morallies the which is a framer that in mandatory for enter does now Suspensed to provent injury to a shift or does or

features. Waste now I open and close the door manually and lock it by Changag a C eleng on the track I haded me plus a coupon discount. The old and non an use 16 years ordered at the electronics of the garners door recognition I see that it could be excelly commented to turn on countling it would make an assessment person?

Back to referring and down leading recovery from the how to see a modern to applicat with our Ma Well house. boat when some of the infermencia are morefler me I was

The disks are about a SED the cost and there is a ker more. With all our trouble with our house I goese we are holy more we don't have burrouse or fineders demon. I have seen the destruction in Garmana.

#### Using FOP OVER

ver a year sep. I reed a request asking how to use rostead of OPEN NEW Others are better qualified to employs some of this. Let me simply state that you need to OFEN a device before you can scores it, and, when you are done using it, you should

Thing FOF\_OVER lets you set an error text for a "but" modium - where "but" out topes any of a sensity of problems such as emissing physical medium. If the error is recognized, noteed of having the

process sinch, recovery can be to another breaken in the The following examples are actual PROCedures and One deels (S.AMBer (FOP OVER) and QEATIER (COPEN NEW) I hope this is still earths

information, and my apologies for its turbases. Tomorring and occurrency should be the excise way

To begue with the clinious, here in the PROCedure sand in 600 DEFene PROCedure Assess DBM 280416.225

670 DRROUSIA" "REDIS CLOSENS SNO OPEN INSTINAMENTS FOR 0"0 TO 615 TO DOUTFY, CA(4) END FOR a CLOSES? erad END

You should be able to see that the PROCbrary of LanKen Procedures and

often page ECP CVER is survey avoided 650 DEF no PROCedure Access DBM 251631.323 500 six-FOP\_OVERSHIPS AND TO IF 40-9 THEN IX CLSS AT\$2,24.37 BUFORTSUAR

N. AL Pens

PAUSE 50 HELS NICH WICH 670 DIRECTSANA", "ARMS CLOSURE 430 OREN THAT SENDER DOE NOT TO ALL

700 INPUTEZ ZEGO END FOR a CLOSENT pro-1 END END DEFine ZS(a,D is a DOMentoused array where 'g' is the number of

seates (so the case \$10, two of which are related to the medium broder) and '7 (the filename length to 32

TO -" FLIST me RNS - (the is optional, and, one to counsel)

em DEFine PROCedure aCLS (eleva part of the one DEPine PEOCodara WCh. (Nis is where I ware the I hope these two examples and lessed explanative are

If you have now questions, find this to common over

Written by Larry Kenny This BESON PASCAL routes sodi provides the CoToDana - Salest Drive Dec 1 procedures and functions required for reading and sering sequential files to a Larkin DOS Savanties

A Library of LkDGS File Procedures and Functions ReiCher - Rend I Char From Fele ClossFile - Closes Buller, Frees DOS Commands

Catalog - Sample Cat Line I listory: Worses by Larry Koney Nevas, Ostano, Canada, 1999 WAR C : COMP ENTERRY

INLINE (800, 862, 800, 834, 809, 820, 891, 840 PRICEDURE Catalogs

INLINE (4F), SCD, \$62, \$00, MAP, \$32, \$10, 820

PROCEEUR OFFICE IN 10V: DEPROEST IF (DV-0) OR (DV-1) THEM

FORK (2372), CHE (DV) INLINE (#CD, #62, #00, #3A, #80, #50,

ELSE WRITELS ("NON-EXISTENT UNIVE") ;

PROCEEDING OWNERS IN MILTER (MONTHS FILE TO OPEN ')

INLESS (#CD, #60, #00, #21, #0F, #17, #11, #22, COTTL Boly \$38,820,812,823,813,810,876,83E

#### DataStore() and DataFetch() Two LarKen DOS Procedures For HiSoft™ PASCAL & David State

Then you have become gooded by having a disk drive you soon begin to wender what was is there in brings a compiler which allows you to were procused which are cuty to maintain and can like widthy when compiled but greed scall's page when they been an account the consequence drive to store or firth data. The har book the coulders with Hilloft PARCHE, Fernise & compiler for the Taxordinates 2005, Conceded PASCALA boyen variable data can be stared to and fetched from duit under

How The Procedures Work Il versions of PASCAL use a stock or one form or another to keep brack of parameter passing according procedures and functions. HiSqut PASCAL consthe DC reguler to perform this ference. In the case of DataStore() and DataFetch(), durietts bytes, station from

procedure is called. Depending upon whether it is the

passed to the procedure through the function STEED. 7 Ton The address is usually supplied through the function. AHORO: The removing most better continue the name under PideName have been prested of the gast defined turn verying to pass the file nerse from whore g is used from the locations in the Lacken DOS extender and avokes the

\$00.412.650,65C,6C0,600,600,630,630.

603, 832, 830, 850, 800, 856, 600, 8500 p ESSY.

PERSONNEL Closeville.

Demo Program I

The demonstration program errors a small telephone I derectory in which you can more not more an manufacture. The program will ask you to enter see manufacture. name under which to story of the data which was been

estared into the variable Directory to the disk. Prostly it will sale for the file name of the data to retness them the disk. When you first may the program you will have so PROCEDURE SERVICE/VAR Profilets Scientifical names you can then use any of these names and the data Leter Direction. distant Program LISTing POR Letter - 1 TO Prinches Lee DO TelephoneDirectory This progress creates a small neighbors directory to PROCEDURE RENCHAL demonstrate how a type error be developed to FOR I - 1 TO Moding DO History Based upon an example in the Robot PARCAL mount WEITER Fore Name 1.52.1. Please 21). Lecker DOS DO Statures by Devid Solly and Larry Kerny WESTER Elster Number, Please > 3. 25 Merch 1990 Revened 4 November 1988 Modes = 12, ( Megasan leach for the "news" ). END, Maxims - 10, I Managers number of environment the relephone directory 1 PROCEDURE PRINCIPAL f Reads the information contained in the ( An array type for helding \$10 names ) telephou directory ) FUNDATION - ARBAYTT SLOT CHAR. I A special type to emulate a "stream" I FOR I - I TO Moder DO Charfor: ARRAY (1 Modes) OF CHAR-WITH Directory(I) DO Len INTEGER Str Winter(Name) A base two for each seary in the directory ) Number StringType. TND Diseasey ARRAY [1 Maxiful] OF EmyType. RG DateStore Oleme Highland Type 1 INTRODU Ans CHAR Nichana FileNane/Year Writes data to the data Concept and research by David Solly

PROVEDENCE SURGED (VARI DroyData StragType). entered while keepings track of the rembur of 677, 8CD, 862, 800, 832, 808, 832, 602

( Required in HiScot PASCAL. SEADSTONYDER Charles Charles Court Data Leaf

READEN / Descript of a WEAR I

#20, #20, #21, #21, #22, #29, #06, #00, · HELL PCID, PCC, PSO, FDD, FOE, BOA, FDD. PROCEDURE Desafreck (Name: FileNameType

#### Start, Synn: INTEGER's.

Finds a Six from the disk draw. History:

Concept and research by David Sollie

493, 8CD, 812, 800, 83E, 864, 632, 830 600, 623, 603, 661, 600, 661, 600, 604.

END

#### Main Program

WHITELN("The obsect of this program is to demonstrate") WRITELN of PASCAL and also to demographs have

WATTER No stored within records and everys may be?) WESTELN Transferred to and from the LARKIN Door's.

WHITELN("DataFech()" ).

WELTELIS! His my key when couly 'is. FEADYAN) ReadDay.

WESTELM, Now to store the data to disk't. WESTER Street a more for disk moreoge >1 ESADOWSNigar) DataStoredTitaName, ADDE/Divactory), SIZZ/Directory).

WittrEffData Stored 3 WKITTELNI'Now to fresh the date from the disk "L

WKITELN/Gater a name for disk feets >1. READOWSName)

DataFetchTGeName ADODADOscowy), SDDD Dyrecowy), 6

WHITE IS Ted of Decemporary

Askadly, the version of HESoft PASCAL that was converted for use on the Times/Seather 2003 model ammediately agrees the ZX Microstove which was a highspeed - compared to topol - mass storage devices Unfavorately, the ZX Microdives were relatively hard to come by 19 North America. The Desaflood) and Danafeods) procedures, like then

transfer victorily any section of RAM, excluding the across buller, on or off the disk by supplying the start and length parameters so the locations occupied by ADERRO and \* Based in pert on the Hilbert PASCAL demonstra Unida its tape counterpart TDN), DataFatch() requires

## SPEED Comparison Between 2068, PASCAL and Compiled BASIC (TIMACHINE)

her I oppy Konney Galand by David Soils from Mr. Kenny's 1949 aroust have been working on using my Timou Sandar Nova to have been working on using my Timou'Simeler 2008 to control a 5-axis children'swing machine song stopper seeded to use the size and receive fautions in the marriage language - seing the flowing point attenuater I saked David Solly, who is a long time H-Soll PASCAL teer, to write me a less program using its PASCAL USE, to been me a live program using as necessaries functions so I could lest a assess

The results: TG-2018 BASIC interpreted 150 mounds Compiled RASIC (Timackee) 126 recounts cerl The PASCAL really then even when down

southern back to no it doesn't do my 3,054 calls. That also recens that the compeled code can be bornt ando an EPECON and run on a 280 based CPU without the Whe computed BASSC is only slightly fusion that regular BASIC when the floating point souther are used

Even calling the Tames berder 2008 flooring point

routers from machine code decen't make much difference. If you are writing a program that does a lot of calculation such as a spread sheet, 3d graphics, or CAD etc., PASCAL well far out perform BASIC.

Times/Sinclate 2018 BASIC Clicic Listing 1 EMM (1999).

IO LET RAD = 50
20 POR A=0 TO GER STEP 5
10 PLOT 10 - RAD \* SEN A , 80 + RAD \* COS A
NO.NEXT A
50 PRINT \*END GE PROGRAM \*

50 PEINT TEND OF PROGRAM\*
HIS OR PASCAL Circle Lieting
PROCEDURE PLOT (ON BOOLEAN, X, Y

REGEN

BY ON THEIR WRITING IRRECTLE CHROSE

SLASS WRITTE (CHROSE)

DILDRESHED, REL. REA. REC.

PCD, PES, PZ2), END, PROCEDURE CRIC, CONST RAD = 21, VAX A REAL,

9 A REAL, ON BOOLEAN, BEGIN A = 0,

> REPORT PLOT CON ENTERING + RAD + SENÇAN ENTERING + RAD + CONCANA A = A + 0.5

UNTE A > 628, END, EGGN ("MAIN PROCEASE") CRC, WALTERN ("NID OF PROCEASE")

# Hacker's Journal

The QL Flacker's Journal (QUID) to published by Tim. Sweetcon as a service to the QL Comments; The QRB is fixely destributable. Fast interes are available on defi, via e-med, or via the Asso-FTP server, gentroserum. If the QRU is shreety on the look out for erhoic arbomistics.

2455 Medition Dr. Union Dip. CA 94587-1914 Switzentifigatorius con sweetentifiada au con

http://www.poulisse.com/fileset/fullsp/fulls/ful

Gold Mill (expected, but his not complicating).

Gold Samily (1) with the (1) Samily both, 7 or hard possible (1) with the (1) Samily both (1) Samily both (1) Samily (1) Samily

OGr QLeve Altivo

Shelling Out To SuperliASIC
The QL is unique to how QCOS and SuperLiASIC are not
of collection on Part to work can be placed to generally allow
QCOST assains, we see only have one copy of
Google-RASIC
maning (WK, I have been mind from one copy of SuperliASIC
is a makinated opening system model, share us the QC and
the Sholl This Shall is a soot method to the opening
system. In LIMX there are newly different solids, Bloase
(VG, CColla), Excit (MS-QCOST in hall we wan

CONSIDERATIONS IN THE CONSIDERATION OF THE CONSIDER

the a buttern Septimization entermed spottern studied to ChARidde enterministic there are now yet to that our to Septimization the control of the septimization of the septimizat

Here is a the steps at SuperSASSC surres LOAD PLF1\_TEST\_RAS

Water 1799

LIMERATE FLPI\_TEST\_RAS EVEC QUE Since I cash sell LOAD or LIMERATE from write Microlinace, I Sought I could write a Superficial

program and then compile it. This may work with LIBERATE, los LOMD is not a command that QCID will compile.

I thought I was stock until I stored reading the NotEay System II manual. It was these that I me assess the true

commend, MOZ. CAD and 1999 test. The nations do the value of the commend that GOZ. GAD and seeking it in at ALT lety, a commend that do the commend that do the commend that the commend that the commend the property of the commended programs, but one in a SeptembaSSC intronuce or a resident commend that the CAST or DYNAGAS, PHOT. CADD "Princh" the SeptembaSSC interprets to the top and the commend in some to SeptembaSSC in the commend in some to SeptembaSSC in the commend in some to

IXI or DIVLOCARY. PLOTTED AND A STROME COMMENCE (IN IXI OF DIVLOCARY) PLOTTED AND A SECONDARY OF SECONDARY OF

HDT\_DO(\*) is the same as the same betting the ALT-inlegal weight of the programmers and perform across just as if they were strengthmens can perform across just as if they were short, how a but I would not the two commands in

advents using Objection 1 to 180 com
10 find = "lig1 me; line"
20 HRT HOT COMOV, LOAD find?
40 EXT HOT COMOV, LOAD find?
40 EXT HOT COMOV, LOAD find?

20 and Annie 1 Okt Similar has EXEC at 00 BXDX CALL DAY BXD AND THE EXEC AT 10 BXD AND THE AND

Long, objectively I work (our smith) re-hand where the most of the eight ready may proposed above I was started of the eight ready may read above I was a granted way. But may not seen sealing. The Long SRAMC for that starte is the eight ready for Long SRAMC for that starte is eight ready for Long SRAMC for that starte is eight ready for Long SRAMC for the starte is eight ready for Long SRAMC for the starte is eight ready soor domatile features, see resultable or readilist soor domatile features, see resultable or ready powerful. On the difference librower, I am presently not for difference librower, I am presently not for difference librower, it was presently not for the starter of the starter and was not comparable to be, subject to see see a comparable to the starter and was not comparable to be, subject to other and was seen comparable to the subject for the starter of the starter of the starter and was not comparable to the subject of the starter of the starter of the starter proposed to the starter of the starter proposed to th

There are two ways of passing personness to functions and procedures as S\*BASSC by value, which is perhaps the "authority" method, and by reference, which will be the ZXer QLive Alays!

was focus of this article.

Proving parameters by value in (what we may THENK) we normally do RUNming the program fragment below 10 test 1.2.1

100 defprox tost (i.g. h.e) 110 gent a.b.o 120 middef

100 month proof 12.5° on your solves (with any lacks). And of coorse 10 p=1 y=2 x=3 coorse Assign values to some wanables 20 test 1,5,5 com and one these section distribution of 546, 5462,

500 delprio tastija, jugi ii 110 peint a, b, c ii 120 ameta, b-b-b ameto yean Double all parameter ii vanshind

D2 colder 143 The new harpers 10 u=1 y=2 x=3

20 mar2 s,y,e 20 pms s,x,e 1 2 3 c pmstr out x, y, & z, sa espected 2 4 6 c bat what's going on bent? We set x,x,e to be

By a terming the values of the personner variables n, b, d, c, c is now cases of large particulates n, b, d, c in the contract of the property of the soling variables n, b, d, c into this is a sail by reference such as the proposition of the contract of the contr

from the propose remains to you make eithy But have to defrom toped small [1,2], which do you limit happens to \$1, \$1, \$7 Well, their wakers are samply threat army what the remain naives the small previously and bells good for intil \$0.14(1).57, hashing previously and \$1, \$2, \$1. Well and \$2. Well and \$2. Well and \$2. Well and \$2. \$2. Well and \$2. Well and \$2. Well and \$2. Well and commercial as september in this recentry, and one therefore soft previous larger value.

20 test (x),y=0 20 test (x),y=0

1 2 3 ≤ posts out x, y, & x, as expected
1 2 3 ≤ posts out x, y, & x, as expected
1 2 3 ≤ posts out x, y, & x, as expected()
Cood programming postere would avail alterng the
parameter versibles - supy their values use LOCal
versibles usetend it as my openion, test? (vk)/y/y/y/ gross
the dearwise lethorstoon of itselfs, bounds being contensually).

ry value Winter 106

co: Coercion >>> There are other "oddiner" about the way assented

100 deferoe swc3(a,b,c)

110 pent a.k.s.

JUNeing this progress produces

Not what you'd think, looking at the formal parameters a. b. Things to weach out for though see You may assume that

100 defence feet perspetitions; 120 afterable) \$16-856-656 attends day 3

You've expending all this effect operating fact tour. changing out floating point versibles with integers, and the

130 aren't bristly one divis In fact everything must in (selectedy) slow floating poset

wall mass indepens to first test, and/or

That you then use in the formal nanameter has to What you then use in the Scraul parameter or artiferant (except as a remander as 10 what cornect type should be!) Also copying the arrilewant fewerer so a remander as an what the parameters soo LOCal variables will course the parameters

· Returning Values through the Parameter List -A "by-product" of the shifty to pass parameters by

function\_error = Function(update-able parameter limit) construct particularly useful, as I hope to show Below 1 PENT, YespolySpd) Prissage Parent

2 REMark DCPWise 1998 3 PRINT/FITPD - No Warrange 111 5 Stanformal has sed from Paradian has

8 PRINT New Yorks Trion Trion Till Control Nav New Above. The first peri of the process some some

32.724 DEFine Publisher FameFamil's v5.(5 st et)

system (FS), it is impossible to determine how much of the latter part of the same is filename and here much us directory name newly by respecting the Gaussi You have to screatly open the file for so descrows so find our eccedica to a stincise of known facts and assumetimes

(i.e., sin sot Sodproof) it puts the different sections was the recobed variables, and retrees of The function is defined as a florang point faultion, engli seg return text, lie the, simplified, version any values pre-supplied in vd of ore overwitten. The

only passender you should supply to the 15 clor Pull Falsaper) This is (more or less) expensed to be in the form key <> - same, ( = or; ⊕ = optional (0 1),

() = pagested (D.) "aug" " directory separator," "COOK!" | VOLUME SOURCES - (SMSQN) "Elegant" Service seaso-Serve number (1. E)-Seepo-

(Streetory average-cure) [Stiegenet canage General and III 12727 -FOF DEMISS IF SO BETTER FOP DER is a function (introduced in Toolke I'll (\$42), by in SACODAL It came to make the best of the information

supplied, and will poss the first durature that marries that called 'wint nem' (but now sailed 'wen' nam prg. ...) and you did a FRT FOP DED/west new you temp) the of the Eleapor to be a fillename 12725 45-TNAMESONO CLOSEN FNAMES date a Section from \$121 course the same of say file, play directory files. So, continuous our sevenire example above, di (for Directors) would now consile 'exer-

- Note the device same is not returned FNAMES did return (at least the first) part of the descriptor

22730 9%-65 INSTR. IS SF 9%-0 BETWEEN -T If the fileness returned by FNAMES is, after all, cut in the

ERT FOF\_DUICE((also seet) If it is a substrag of Geopee, append the General separate the the last one is not stored in the description

I this point off is " This could mean that Good' had About (e.g. had we specified "west prog. jump." and these was no well prog. '), or thei something

32733 above "System was Do a pramerue test on the filespec to see if it oceasing a

32735 v5=REMV5(yN,LIDN(M),II) vS stands for de Vicenacie vS gets set to the first per of

32735 TF phi-13 OR yns-5 RETTen -12 The version of the filename purey form't mount

32733 IF #54-04 KRTurn -10 12736 v5-020MV3(95,LEN(B),00 Toute whether the first part of the filespee to a combbe

devicement (Denocement out only legally by 2, 4, or 5 characters loss, as as: \$3 ; 263 ; vend . Anythree OPEN NEWS, TEST MAP PRINT PNAMERSHIP and age

We allow filespec to be recomplete from devicename

32340 at-REMOVED PROPERTY OF There is a mane (and possibly as extension) Let all (for

12742 FOR HIS CLERKED TO LISTER A 22743 IF all (NOTE) " gre-to EXIT of Hore we just check (Escasse from the end of the strong for

12745 DE ables TREEN No expension found 12742 #5-EEMVXVIII-041-1-451 Since Eleganic into same part and extension part.

log larners Eds to taste ZOGE OL eve Allew

The final part of the program is a belo-function REMOVES (thorseed to REMOVE of the STRASSIC morration) all I does in to mapping street allians by currendering all the over trapping. It won't be looked at 12751 DEFine Publisher REMVS(65), to51, serti-

17797 If told >= LENderth RETwin\* SET'S RETURN OF SOME STREET STAND IT 10% >= LENGARD THESE 27341 WETER edict TO etc., 17

22TG END DEFine

12761 RET MINT TO \$5 - 1) & MINOS + 1 TO 2765 END DEFine

The weied numbering scheme is to smaller the function to be easily MERCAN uses a larger program that moods Arrays on Parameters

Also arrays are passed by reference, when you regely as Undertakenty, S\*BASIC provides only limited "mass" government of a bear seems on arrays shough you This comes in hands if you want to notic your own man-

one in S\*BASIC or machine code. You can't do a " b with 1 DIM sSG 22226 567 222 61 3 FOR 76-0 TO 3 FOR 76-0 TO 3 FOR 156-0 TO

SFORMS TO SHOR JUST DEPORTS TO S EGR MOTO 2 s(/%,/%,/%,/%)-count's exective countries

Above Senature a few test acrops (saw plenty of Criticanoes ) Note you'll have to modify all integer POS-loops to make this program run under plant QL TO CY.S PRINT +51

14 CT-560 CLSRI PRINTING AS A PRINTING OF 14 RFEF 2000 20 PATEEL I CLS PEDIC WA 22 CLEAR PRINTERS OF PRINTER OF

100 REMARK EDU SBASIC Supposes

103 REMark same deservious and type

105 REMark CPWine, August 1998 100 KESMark For "educational" perposes only 107 Elither Use at own risk. No warrantics

Cen't ray you known't been warred?

The idea is to equal analy a with array b in a measurable rational recoper, while demonstrates some of the matters.

The first thing to note in that EQU will bandle any tope of army in, sauger, mag, a. som the parameter has only shown float! Also, any the parameter has only shown float! Also, any number of deversions are handled. The only processes, in this implementation, is that they are of the same tree and

This use little feature of "inharkance" is not documented approphers, as for as I brown A LOCal versible defined to one procedure will recount.

local in any procedure collect by that procedure, unless the variable has been 're-defined' by a subsequent use of Lare the local variable, or (seror flag) is set as EQU. the calling factors, and modified in EQN/2003 Yet a variable or, defined in the initial code. curate my procedure body, would return its original

value. The only danger less in that If the same subreviews were to be round by another procedure, you may 1000 IF PARKISENSO-PARKISSING SECTION ... 17

1550 IF PARTYPOP'S THEN

1960 RETurn DQS(a,k) 1000 RETURN PONTA N Street arrays ment be handled electric differency to most. It might be possible to find a universal absorbus, to

ceas, rather then lyte by byte So the strong and response nder have been employmented as separate functions. Another advantage is that this offices the experimenty to optiment them (how ever slightly) for their different even.

2000 DEPose Fulidios EDN's VI

Another reason for acquiring out these sub-coupons as ZDGr OLive Almet

functions. It that we can take advantage of the sturproter's excellent enter about shriften, as in line 2000 FETTER ((SWING) - DEMOND) BETTER -6 Very discounce has to match at one. This see, will be performed before any processing takes place. The

Look-shead If the next American is part the last then the is the discussion we can work with Copy this dissussion from b to a, element by alement

2000 FOR IN-9 TO DEMNIS 2070 em-DQN(agNa).66N(3) EF em-0 EDGT ris

More than newhing, a function life: DOU wants appeal. test & branck. The cost of recursion in elevent proposary. therks to the paran's array obtine abitions

The error-checking stuff is not strictly necessary in a programming sacket - ever-une comp performed at the program lovel - but all eater to Colors at their add it when prepared (in a during program

3000 DEFine Publishes EQS(s,1) Frozy much the same or for EQN above, but optimized

Note that the same technique curnot be used for 1% as er SECOND OF CHANGE PORTOR AND ARTHUR A 1010 DEMONANCION O THEIR

This arrangement was actually a bug, as oncompanion is made on the last director However, as the interpreter doesn't complete and supply ignores my supermoverary characters, I shought 14 DEM 4503,100,1653,80 ar-GORDER 483 works, though any strongs longer than eacht characters well.

3000 IF DEMONSTRUCTION THEIR Summershor a() sedem to an array of tree string! Companyons can be performed at a higher processal level, as we 3040 POR IN-9 TO DESCRIP AUTO-SITIST

3030 e-1050605036050 F e-0 EXT 44 3090 END FOR VIO

1110 END DEFine Gonuse businessepatibility reports, suggestions and comments welcome Send to preside/discovers al.

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